

Switch OFF the Photometer
File: H_FCP_SPI_PHOF.xls
Author: R. Biggins



Procedure Summary

Objectives

The objective of this procedure is to switch OFF the Photometer Detectors (PDET)

Summary of Constraints

n/a

Spacecraft Configuration

Start of Procedure

SPIRE is in BSM_OFF mode

End of Procedure

SPIRE is in REDY mode

Reference File(s)

Input Command Sequences

Output Command Sequences

HFSPHOF

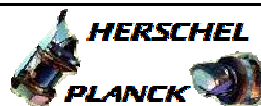
Referenced Displays

ANDs GRDs SLDs
SA_6_559
SAP0_559
SA_4_559

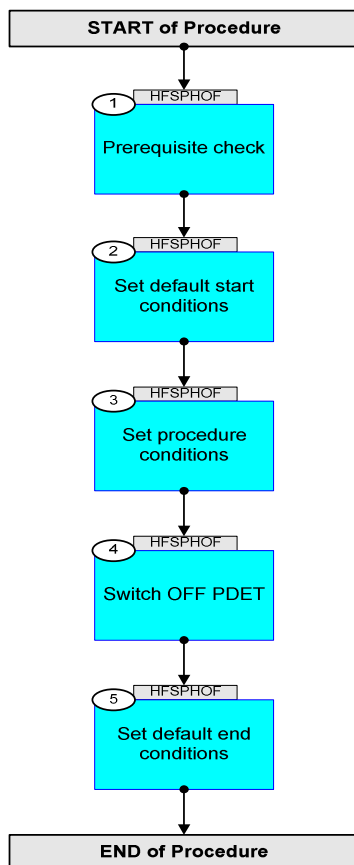
Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
07/08/2007		1	Created	R. Biggins	
15/01/2008		2	Update due to initial testing against the simulator: 2 - TCs updated due to new DB	R. Biggins	

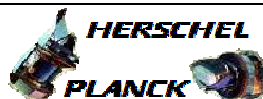
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Procedure Flowchart Overview



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
Beginning of Procedure				
HFSPHOF Switch OFF PDET				
SSID :				
1		Prerequisite check		Next Step: 2
		Verify Telemetry MODE SM00M500	= BSM_OFF	AND=SA_6_559
2		Set default start conditions		Next Step: 3
	ET=+00.00.00 UT=+00.00.00	SET_OBS_STEP Command Parameter(s) : OBSERVATION_STEP SP03N500 TC Control Flags : GBM IL DSE ---- -- SSID : 370	SC003500 0 <hex>	
	ET=+00.00.00 UT=+00.00.00	SET_BBID Command Parameter(s) : BUILDING_BLOCK_ID SP01N500 TC Control Flags : GBM IL DSE ---- -- SSID : 370	SC001500 80010001 <hex>	
	ET=+00.00.02 UT=+00.00.02	SET_OBS_STEP Command Parameter(s) : OBSERVATION_STEP SP03N500 TC Control Flags : GBM IL DSE ---- -- SSID : 370	SC003500 1 <hex>	
	ET=+00.00.00 UT=+00.00.00	SET_OBSID Command Parameter(s) : OBSERVATION_ID SP00N500 TC Control Flags : GBM IL DSE ---- -- SSID : 370	SC000500 B0000000 <hex>	

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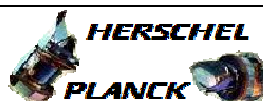
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.01 UT=+00.00.01	SET_OBS_STEP SET_OBS_STEP Command Parameter(s) : OBSERVATION_STEP SP03N500 TC Control Flags : GBM IL DSE --- -- --- SSID : 370	SC003500 0 <hex>	
	ET=+00.00.00 UT=+00.00.00	SET_BBID SET_BBID Command Parameter(s) : BUILDING_BLOCK_ID SP01N500 TC Control Flags : GBM IL DSE --- -- --- SSID : 370	SC001500 80000000 <hex>	
	ET=+00.00.01 UT=+00.00.01	SET_OBS_STEP SET_OBS_STEP Command Parameter(s) : OBSERVATION_STEP SP03N500 TC Control Flags : GBM IL DSE --- -- --- SSID : 370	SC003500 0 <hex>	
	ET=+00.00.01 UT=+00.00.01	SET_BBID SET_BBID Command Parameter(s) : BUILDING_BLOCK_ID SP01N500 TC Control Flags : GBM IL DSE --- -- --- SSID : 370	SC001500 80020001 <hex>	
	ET=+00.00.02 UT=+00.00.02	SET_OBS_STEP SET_OBS_STEP Command Parameter(s) : OBSERVATION_STEP SP03N500 TC Control Flags : GBM IL DSE --- -- --- SSID : 370	SC003500 1 <hex>	
3		Set procedure conditions		Next Step: 4

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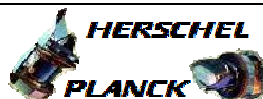
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.01 UT=+00.00.01	RESET_DRCU_COUNTERS RESET_DRCU_COUNTERS TC Control Flags : SSID : 370 GBM IL DSE --- -- ---	SCD00505	
	ET=+00.00.01 UT=+00.00.01	SET_OBSID SET_OBSID Command Parameter(s) : OBSERVATION_ID SP00N500 TC Control Flags : SSID : 370 GBM IL DSE --- -- ---	SC000500 OBS_ID	
	ET=+00.00.01 UT=+00.00.01	SET_OBS_STEP SET_OBS_STEP Command Parameter(s) : OBSERVATION_STEP SP03N500 TC Control Flags : SSID : 370 GBM IL DSE --- -- ---	SC003500 0 <hex>	
	ET=+00.00.01 UT=+00.00.01	SET_BBID SET_BBID Command Parameter(s) : BUILDING_BLOCK_ID SP01N500 TC Control Flags : SSID : 370 GBM IL DSE --- -- ---	SC001500 80000000 <hex>	
	ET=+00.00.02 UT=+00.00.02	SET_OBS_STEP SET_OBS_STEP Command Parameter(s) : OBSERVATION_STEP SP03N500 TC Control Flags : SSID : 370 GBM IL DSE --- -- ---	SC003500 0 <hex>	
	ET=+00.00.00 UT=+00.00.00	SET_BBID SET_BBID Command Parameter(s) : BUILDING_BLOCK_ID SP01N500 TC Control Flags : SSID : 370 GBM IL DSE --- -- ---	SC001500 85040001 <hex>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.02 UT=+00.00.02	SET_OBS_MODE SET_OBS_MODE Command Parameter(s) : OBSERVING_MODE SP02N500 TC Control Flags : GBM IL DSE --- -- --- SSID : 370	SC002500 2fe <hex>	
		Verify Telemetry MODE SM00M500	= PDET_OFF	AND=SA_6_559
4		Switch OFF PDET		Next Step: 5
	ET=+00.00.01 UT=+00.00.01	Send DRCU command to Set Drain Bias Voltage settings SEND_DRCU_COMMAND Command Parameter(s) : DRCUCOMMAND SPD4N505 OVERRIDE SPD9N505 TC Control Flags : GBM IL DSE --- -- --- SSID : 370	SCD06505 8413003F <hex> 0 <hex> (Def)	
		Verify Telemetry PMLWJFETSTAT SM80F510	= 003F <hex>	AND=SAP0_559
	ET=+00.00.00 UT=+00.00.00	Send DRCU command to SetTC JFET Source Voltage SEND_DRCU_COMMAND Command Parameter(s) : DRCUCOMMAND SPD4N505 OVERRIDE SPD9N505 TC Control Flags : GBM IL DSE --- -- --- SSID : 370	SCD06505 84140000 <hex> 0 <hex> (Def)	
		Verify Telemetry TCJFETV SMT0V510	= 0.0 V	AND=SAP0_559
	ET=+00.00.01 UT=+00.00.01	Send DRCU command to Set Drain Bias Voltage settings SEND_DRCU_COMMAND Command Parameter(s) : DRCUCOMMAND SPD4N505 OVERRIDE SPD9N505 TC Control Flags : GBM IL DSE --- -- --- SSID : 370	SCD06505 84120000 <hex> 0 <hex> (Def)	
		Verify Telemetry PSWJFETSTAT SM20F510	= 0000 <hex>	AND=SAP0_559

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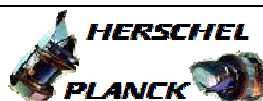
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	Send DRCU command to SetPSW JFET Source Voltage (Ch 1) SEND_DRCU_COMMAND Command Parameter(s) : DRCUCOMMAND SPD4N505 OVERRIDE SPD9N505 TC Control Flags : SSID : 370 GBM IL DSE --- -- ---	SCD06505 84050000 <hex> 0 <hex> (Def)	
		Verify Telemetry PSWJFET1V SM20V510	= 0.0 V	AND=SAP0_559
	ET=+00.00.01 UT=+00.00.01	Send DRCU command to SetPSW JFET Source Voltage (Ch 2) SEND_DRCU_COMMAND Command Parameter(s) : DRCUCOMMAND SPD4N505 OVERRIDE SPD9N505 TC Control Flags : SSID : 370 GBM IL DSE --- -- ---	SCD06505 84060000 <hex> 0 <hex> (Def)	
		Verify Telemetry PSWJFET2V SM21V510	= 0.0 V	AND=SAP0_559
	ET=+00.00.01 UT=+00.00.01	Send DRCU command to SetPSW JFET Source Voltage (Ch 3) SEND_DRCU_COMMAND Command Parameter(s) : DRCUCOMMAND SPD4N505 OVERRIDE SPD9N505 TC Control Flags : SSID : 370 GBM IL DSE --- -- ---	SCD06505 84070000 <hex> 0 <hex> (Def)	
		Verify Telemetry PSWJFET3V SM22V510	= 0.0 V	AND=SAP0_559
	ET=+00.00.01 UT=+00.00.01	Send DRCU command to SetPSW JFET Source Voltage (Ch 4) SEND_DRCU_COMMAND Command Parameter(s) : DRCUCOMMAND SPD4N505 OVERRIDE SPD9N505 TC Control Flags : SSID : 370 GBM IL DSE --- -- ---	SCD06505 84080000 <hex> 0 <hex> (Def)	
		Verify Telemetry PSWJFET4V SM23V510	= 0.0 V	AND=SAP0_559

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.01 UT=+00.00.01	Send DRCU command to SetPSW JFET Source Voltage (Ch 5) SEND_DRCU_COMMAND Command Parameter(s) : DRCUCOMMAND SPD4N505 OVERRIDE SPD9N505 TC Control Flags : GBM IL DSE --- -- --- SSID : 370	SCD06505 84090000 <hex> 0 <hex> (Def)	
		Verify Telemetry PSWJFET5V SM24V510	= 0.0 V	AND=SAP0_559
	ET=+00.00.01 UT=+00.00.01	Send DRCU command to SetPSW JFET Source Voltage (Ch 6) SEND_DRCU_COMMAND Command Parameter(s) : DRCUCOMMAND SPD4N505 OVERRIDE SPD9N505 TC Control Flags : GBM IL DSE --- -- --- SSID : 370	SCD06505 840A0000 <hex> 0 <hex> (Def)	
		Verify Telemetry PSWJFET6V SM25V510	= 0.0 V	AND=SAP0_559
	ET=+00.00.01 UT=+00.00.01	Send DRCU command to Set Drain Bias Voltage settings SEND_DRCU_COMMAND Command Parameter(s) : DRCUCOMMAND SPD4N505 OVERRIDE SPD9N505 TC Control Flags : GBM IL DSE --- -- --- SSID : 370	SCD06505 84130030 <hex> 0 <hex> (Def)	
		Verify Telemetry PMLWJFETSTAT SM80F510	= 0030 <hex>	AND=SAP0_559
	ET=+00.00.00 UT=+00.00.00	Send DRCU command to SetPMW JFET Source Voltage (Ch 1) SEND_DRCU_COMMAND Command Parameter(s) : DRCUCOMMAND SPD4N505 OVERRIDE SPD9N505 TC Control Flags : GBM IL DSE --- -- --- SSID : 370	SCD06505 840B0000 <hex> 0 <hex> (Def)	
		Verify Telemetry PMWJFET1V SM30V510	= 0.0 V	AND=SAP0_559

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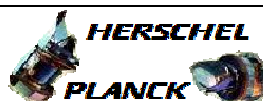
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.01 UT=+00.00.01	Send DRCU command to SetPMW JFET Source Voltage (Ch 2) SEND_DRCU_COMMAND Command Parameter(s) : DRCUCOMMAND SPD4N505 OVERRIDE SPD9N505 TC Control Flags : SSID : 370 GBM IL DSE --- -- ---	SCD06505 840C0000 <hex> 0 <hex> (Def)	
		Verify Telemetry PMWJFET2V SM31V510	= 0.0 V	AND=SAP0_559
	ET=+00.00.01 UT=+00.00.01	Send DRCU command to SetPMW JFET Source Voltage (Ch 3) SEND_DRCU_COMMAND Command Parameter(s) : DRCUCOMMAND SPD4N505 OVERRIDE SPD9N505 TC Control Flags : SSID : 370 GBM IL DSE --- -- ---	SCD06505 840D0000 <hex> 0 <hex> (Def)	
		Verify Telemetry PMWJFET3V SM32V510	= 0.0 V	AND=SAP0_559
	ET=+00.00.01 UT=+00.00.01	Send DRCU command to SetPMW JFET Source Voltage (Ch 4) SEND_DRCU_COMMAND Command Parameter(s) : DRCUCOMMAND SPD4N505 OVERRIDE SPD9N505 TC Control Flags : SSID : 370 GBM IL DSE --- -- ---	SCD06505 840E0000 <hex> 0 <hex> (Def)	
		Verify Telemetry PMWJFET4V SM33V510	= 0.0 V	AND=SAP0_559
	ET=+00.00.01 UT=+00.00.01	Send DRCU command to Set Drain Bias Voltage settings SEND_DRCU_COMMAND Command Parameter(s) : DRCUCOMMAND SPD4N505 OVERRIDE SPD9N505 TC Control Flags : SSID : 370 GBM IL DSE --- -- ---	SCD06505 84130000 <hex> 0 <hex> (Def)	
		Verify Telemetry PMLWJFETSTAT SM80F510	= 0000 <hex>	AND=SAP0_559

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	Send DRCU command to SetPLW JFET Source Voltage (Ch 1) SEND_DRCU_COMMAND Command Parameter(s) : DRCUCOMMAND SPD4N505 OVERRIDE SPD9N505 TC Control Flags : GBM IL DSE --- -- --- SSID : 370	SCD06505 840F0000 <hex> 0 <hex> (Def)	
		Verify Telemetry PLWJFET1V SM50V510	= 0.0 V	AND=SAP0_559
	ET=+00.00.01 UT=+00.00.01	Send DRCU command to SetPLW JFET Source Voltage (Ch 2) SEND_DRCU_COMMAND Command Parameter(s) : DRCUCOMMAND SPD4N505 OVERRIDE SPD9N505 TC Control Flags : GBM IL DSE --- -- --- SSID : 370	SCD06505 84100000 <hex> 0 <hex> (Def)	
		Verify Telemetry PLWJFET2V SM51V510	= 0.0 V	AND=SAP0_559
	ET=+00.00.01 UT=+00.00.01	Send DRCU command to SetPhaseShift (SW Channels) SEND_DRCU_COMMAND Command Parameter(s) : DRCUCOMMAND SPD4N505 OVERRIDE SPD9N505 TC Control Flags : GBM IL DSE --- -- --- SSID : 370	SCD06505 841A0000 <hex> 0 <hex> (Def)	
		Verify Telemetry PSWBIAS SMB0V510	= 0.0 mV	AND=SAP0_559
	ET=+00.00.00 UT=+00.00.00	Send DRCU command to SetPhaseShift (MW Channels) SEND_DRCU_COMMAND Command Parameter(s) : DRCUCOMMAND SPD4N505 OVERRIDE SPD9N505 TC Control Flags : GBM IL DSE --- -- --- SSID : 370	SCD06505 841B0000 <hex> 0 <hex> (Def)	
		Verify Telemetry PMWBIAS SMB1V510	= 0.0 mV	AND=SAP0_559

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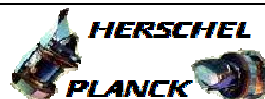
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.01 UT=+00.00.01	Send DRCU command to SetPhaseShift (LW Channels) SEND_DRCU_COMMAND Command Parameter(s) : DRCUCOMMAND SPD4N505 OVERRIDE SPD9N505 TC Control Flags : GBM IL DSE --- -- --- SSID : 370	SCD06505 841C0000 <hex> 0 <hex> (Def)	
		Verify Telemetry PLWBIAS SMB2V510	= 0.0 mV	AND=SAP0_559
	ET=+00.00.00 UT=+00.00.00	Send DRCU command to SetPhaseShift (TC Channels) SEND_DRCU_COMMAND Command Parameter(s) : DRCUCOMMAND SPD4N505 OVERRIDE SPD9N505 TC Control Flags : GBM IL DSE --- -- --- SSID : 370	SCD06505 841D0000 <hex> 0 <hex> (Def)	
		Verify Telemetry TCBIAS SMB3V510	= 0.0 mV	AND=SAP0_559
	ET=+00.00.00 UT=+00.00.00	Send DRCU command to SetPhotoBiasAmpl (SW Channels) SEND_DRCU_COMMAND Command Parameter(s) : DRCUCOMMAND SPD4N505 OVERRIDE SPD9N505 TC Control Flags : GBM IL DSE --- -- --- SSID : 370	SCD06505 84010000 <hex> 0 <hex> (Def)	
		Verify Telemetry PSWBIAS SMB0V510	= 0.0 mV	AND=SAP0_559
	ET=+00.00.01 UT=+00.00.01	Send DRCU command to SetPhotoBiasAmpl (MW Channels) SEND_DRCU_COMMAND Command Parameter(s) : DRCUCOMMAND SPD4N505 OVERRIDE SPD9N505 TC Control Flags : GBM IL DSE --- -- --- SSID : 370	SCD06505 84020000 <hex> 0 <hex> (Def)	
		Verify Telemetry PMWBIAS SMB1V510	= 0.0 mV	AND=SAP0_559

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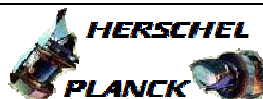
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	Send DRCU command to SetPhotoBiasAmpl (LW Channels) SEND_DRCU_COMMAND Command Parameter(s) : DRCUCOMMAND SPD4N505 OVERRIDE SPD9N505 TC Control Flags : GBM IL DSE --- -- --- SSID : 370	SCD06505 84030000 <hex> 0 <hex> (Def)	
		Verify Telemetry PLWBIAS SMB2V510	= 0.0 mV	AND=SAP0_559
	ET=+00.00.01 UT=+00.00.01	Send DRCU command to SetPhotoBiasAmpl (TC Channels) SEND_DRCU_COMMAND Command Parameter(s) : DRCUCOMMAND SPD4N505 OVERRIDE SPD9N505 TC Control Flags : GBM IL DSE --- -- --- SSID : 370	SCD06505 84040000 <hex> 0 <hex> (Def)	
		Verify Telemetry TCBIAS SMB3V510	= 0.0 mV	AND=SAP0_559
	ET=+00.00.01 UT=+00.00.01	Send DRCU command to SetDRelOnOff SEND_DRCU_COMMAND Command Parameter(s) : DRCUCOMMAND SPD4N505 OVERRIDE SPD9N505 TC Control Flags : GBM IL DSE --- -- --- SSID : 370	SCD06505 A0870004 <hex> 0 <hex> (Def)	
		Verify Telemetry SCUDCDCSTAT SM_2F520	= 0004 <hex>	AND=SA_4_559
	ET=+00.00.01 UT=+00.00.01	SET_OBS_MODE SET_OBS_MODE Command Parameter(s) : OBSERVING_MODE SP02N500 TC Control Flags : GBM IL DSE --- -- --- SSID : 370	SC002500 200 <hex>	
		Verify Telemetry MODE SM00M500	= REDY	AND=SA_6_559
5		Set default end conditions		Next Step: END

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+00.00.00	SET_OBS_STEP SET_OBS_STEP Command Parameter(s) : OBSERVATION_STEP SP03N500 TC Control Flags : GBM IL DSE --- -- --- SSID : 370	SC003500 0 <hex>	
	ET=+00.00.01 UT=+00.00.01	SET_BBID SET_BBID Command Parameter(s) : BUILDING_BLOCK_ID SP01N500 TC Control Flags : GBM IL DSE --- -- --- SSID : 370	SC001500 80000000 <hex>	
	ET=+00.00.02 UT=+00.00.02	SET_OBS_STEP SET_OBS_STEP Command Parameter(s) : OBSERVATION_STEP SP03N500 TC Control Flags : GBM IL DSE --- -- --- SSID : 370	SC003500 0 <hex>	
	ET=+00.00.00 UT=+00.00.00	SET_BBID SET_BBID Command Parameter(s) : BUILDING_BLOCK_ID SP01N500 TC Control Flags : GBM IL DSE --- -- --- SSID : 370	SC001500 80030001 <hex>	
	ET=+00.00.02 UT=+00.00.02	SET_OBS_STEP SET_OBS_STEP Command Parameter(s) : OBSERVATION_STEP SP03N500 TC Control Flags : GBM IL DSE --- -- --- SSID : 370	SC003500 1 <hex>	

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	ET=+00.00.00 UT=+00.00.00	SET_OBSID SET_OBSID Command Parameter(s) : OBSERVATION_ID SP00N500 TC Control Flags : GBM IL DSE --- -- --- SSID : 370	SC000500 B0000000 <hex>	
	ET=+00.00.01 UT=+00.00.01	SET_OBS_STEP SET_OBS_STEP Command Parameter(s) : OBSERVATION_STEP SP03N500 TC Control Flags : GBM IL DSE --- -- --- SSID : 370	SC003500 0 <hex>	
	ET=+00.00.00 UT=+00.00.00	SET_BBID SET_BBID Command Parameter(s) : BUILDING_BLOCK_ID SP01N500 TC Control Flags : GBM IL DSE --- -- --- SSID : 370	SC001500 80000000 <hex>	

End of Procedure